

Northeast Empire Limited Partnership #1)	DEPARTMENTAL
Androscoggin County)	FINDINGS OF FACT AND ORDER
Livermore Falls, Maine)	PART 70 AIR EMISSION LICENSE
A-555-70-B-A)	Amendment #1

After review of the Part 70 Minor Modification application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

FACILITY	Northeast Empire Limited Partnership #1 (NELP#1)
LICENSE NUMBER	A-555-70-A-I
LICENSE TYPE	Part 70 Minor Modification
NAIC CODES	4911 – Electrical Generation
NATURE OF BUSINESS	Electric Generating Station
FACILITY LOCATION	RR2, Snelling Road, Livermore Falls

B. Description of Part 70 Minor Modification

NELP #1 has requested a Part 70 Minor Modification to allow the burning of 10,000 tons per year of knots and screenings from a paper mill in Boiler #1. The pollutant of concern resulting from the firing of knots and screens is sulfur dioxide. The material has been tested at 1500 PPM of sulfur. At this concentration, the maximum firing rate of this fuel into Boiler #1 must remain below 5.62 tons per hour so as not to necessitate further modeling for SO₂ at this time.

C. Application Classification

The modification of a major source is considered a major modification based on whether or not expected emission increases exceed the “Significant Emission Increase Levels” as given in Maine’s Air Regulations.

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The emission increases are determined by subtracting the average actual emissions of the two calendar years preceding the modification from the maximum future license allowed emissions, as follows:

<u>Pollutant</u>	<u>Ave. Actual (TPY)</u>	<u>Future License (TPY)</u>	<u>Net Change (TPY)</u>	<u>Sig. Level</u>
SO ₂	24.2	63.2	38.56	40

Therefore, the modification to allow burning up to 10,000 tons per year of knots and screenings is a minor modification.

C. Revised Facility Emissions

The following total licensed annual emissions for the facility are based on the following raw materials used. All usages are based on a 12 month rolling total.

- Boiler #1 wood use of 520,000 tons per year (4,500 Btu/lb, 50% moisture).
- Boiler #1 knots and screenings use of 10,000 tons per year (4,500 Btu/lb, 50% moisture).
- 5,000 gallons per year of waste oil in Boiler #1.
- Diesel Generator fuel use of 13,500 gallons per year of diesel fuel (0.05% sulfur by weight).
- Diesel Fire pump fuel use of 5,800 gallons per year of diesel fuel (0.05% sulfur by weight).

Total Allowable Annual Emissions for the Facility
(used to calculate the annual license fee)

<u>Pollutant</u>	<u>TPY</u>
PM	47.1
PM ₁₀	47.1
SO ₂	63.2
NO _x	357.0
CO	1054.3
VOC	37.9
NH ₃	21.9

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ORDER

The Department hereby grants Part 70 Minor Change A-555-70-B-A, subject to the conditions found in Part 70 License A-555-70-A-I and in addition to the following conditions:

The following shall replace Condition (24)C of Part 70 License A-555-70-A-I:

(24) Boiler #1

C. Lb/hr emissions from Boiler #1 shall not exceed the following limits:

Pollutant	lb/hour
PM	11.7
PM ₁₀	11.7
SO ₂ *	10.4
NO _x	87.9
CO	263.7
VOC	9.4
NH ₃	5.0

*Note: SO₂ lb/hr limit is based on firing no more than 5.62 tons per hour of knots and screenings

PM, SO₂, VOC and NH₃: Lb/hr limits are on a one (1) hour average and can be demonstrated upon request by a stack test in accordance with this license.

CO and NO_x lb/hr limits are based on a 24 hour block average basis and can be demonstrated upon request by a stack test in accordance with this license. A 24 hour block average basis shall be defined as midnight to midnight.

[MEDEP Chapter 140, BPT]

The following are new conditions to Condition (24) of Part 70 License A-555-70-A-I:

O. NELP #1 shall limit Boiler #1 hourly feed rate of knots and screenings to 5.62 tons per hour. Compliance is based on recording the tons of knots and screenings mixed into the fuel blend on an hourly basis.

P. NELP #1 shall burn no more than 10,000 tons of knots and screening in Boiler #1 on a 12 month rolling total (based on purchase/shipping records which quantify the quantity of knots and screenings delivered).

The following shall replace Condition (36) of Part 70 License A-555-70-A-I:

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(36) Certification by a Responsible Official

All reports (including quarterly reports, semiannual reports, and annual compliance certifications) required by this license to be submitted to the Bureau of Air Quality must be signed by a responsible official.

[MEDEP Chapter 140]

The following is a new condition to Part 70 License A-555-70-A-I:

(38) This amendment shall expire concurrently with Part 70 License A-555-70-A-I.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2001.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application December 12, 2000

Date of application acceptance December 14, 2000

Date filed with Board of Environmental Protection _____

This Order prepared by Mark E. Roberts, Bureau of Air Quality